
ARNOLD & PORTER

202.942.5000
202.942.5999 Fax
555 Twelfth Street, NW
Washington, DC 20004-1206

October 28, 2002

Commissioner for Patents
Washington, DC 20231

Attn: Delores Dillard

Re: U.S. Application No. 09/549,848
Filed: April 14, 2000
Title: Nucleic Acid Sequences to Proteins Involved in
Tocopherol Synthesis
Applicants: LASSNER *et al.*
Atty. Docket: 16516.105

Dear Ms. Dillard:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office (PTO):

1. a Request for Corrected Filing Receipt;
2. a copy of the Filing Receipt indicating the correction to be made; and
3. a copy of the first page of the specification.

In the event that extensions of time beyond those petitioned for herewith are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned. Applicants do not believe any fees are due in conjunction with this filing. However, if any fees under 37 C.F.R. §§ 1.16 or 1.17 are required in the present application, including any fees for extensions of time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter Deposit Account No. 50-2387 referencing matter number 16516.105. A duplicate copy of this letter is enclosed.

Respectfully submitted,

Danielle Edwards

David R. Marsh (Reg. No. 41,408)
Andrew S. Brenc (Reg. No. 45,534)
Danielle M. Edwards, Law Clerk (Reg. No. 51,645)

Enclosures

I hereby certify that the foregoing Letter is being facsimile transmitted to
the attention of Delores Dillard via facsimile number (703) 305-9822.

Danielle M. Edwards
Danielle M. Edwards

October 28, 2002
Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

LASSNER *et al.*

Appln. No.: 09/549,848

Art Unit: 1638

Filed: April 14, 2000

Examiner: C. Collins

For: Nucleic Acid Sequences to Proteins
Involved in Tocopherol Synthesis

Atty. Docket: 16516.105

Request for Corrected Filing Receipt

Commissioner for Patents
Washington, DC 20231

ATTENTION: Delores Dillard

Dear Ms. Dillard:

Attached is a copy of the filing receipt issued by the U.S. Patent and Trademark Office for the above-referenced application for which issuance of a corrected filing receipt is respectfully requested. Please correct the title as shown on the attached copy of the filing receipt. A copy of the first page of the specification is attached in support of this request.

If any charges are deemed appropriate, Applicants hereby authorize the Commissioner to charge any fee to our Deposit Account No. 50-2387 referencing docket number 16516.105.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408)
Andrew S. Brenc (Reg. No. 45,534)
Danielle M. Edwards, Law Clerk (Reg. No. 51,645)

Date: October 28, 2002

ARNOLD & PORTER
555 Twelfth Street, N.W.
Washington, D.C. 20004-1206
(202) 942-5000 telephone
(202) 942-5999 facsimile

I hereby certify that the foregoing Request for Corrected Filing Receipt is being facsimile transmitted to the attention of Delores Dillard via facsimile number (703) 805-9822.

Danielle M. Edwards October 28, 2002
Date

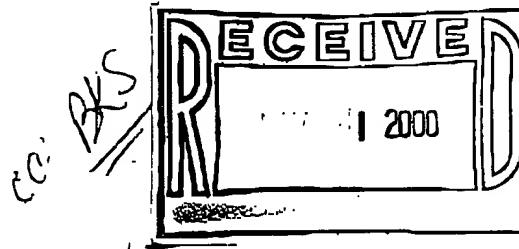


UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/549,848	04/14/2000	1643	1234	17133/02/US	26	33	5

Calgene LLC
 1920 Fifth Street
 Davis, CA 95616



FILING RECEIPT



OC000000005501304*

Date Mailed: 10/24/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Michael Lassner, Davis, CA ;
 Beth Savidge, Davis, CA ;
 James D. Weiss, St. Louis, MO ;
 Timothy Mitsky, Maryland Heights, MO ;



Continuing Data as Claimed by Applicant

THIS APPLN CLAIMS BENEFIT OF 60/129,899 04/15/1999
 WHICH CLAIMS BENEFIT OF 60/146,461 07/30/1999

Foreign Applications

If Required, Foreign Filing License Granted 07/12/2000

Title

tocopherol

Nucleic acid sequences to proteins involved in isoprenoid synthesis

Preliminary Class

435

Data entry by : BALL, ROSALIND

Team : OIPE

Date: 10/24/2000



Attorney Docket No:
17133/02/US

NUCLEIC ACID SEQUENCES TO PROTEINS INVOLVED IN TOCOPHEROL SYNTHESIS

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INTRODUCTION

This application claims the benefit of the filing date of the provisional Application U.S. Serial Number 60/129,899, filed April 15, 1999, and the provisional Application, U.S. Serial Number 60/146,461, filed July 30, 1999.

TECHNICAL FIELD

The present invention is directed to nucleic acid and amino acid sequences and constructs, and methods related thereto.

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BACKGROUND

Isoprenoids are ubiquitous compounds found in all living organisms. Plants synthesize a diverse array of greater than 22,000 isoprenoids (Connolly and Hill (1992) *Dictionary of Terpenoids*, Chapman and Hall, New York, NY). In plants, isoprenoids play essential roles in particular cell functions such as production of sterols, contributing to eukaryotic membrane architecture, acyclic polyprenoids found in the side chain of ubiquinone and plastoquinone, growth regulators like abscisic acid, gibberellins, brassinosteroids or the photosynthetic pigments chlorophylls and carotenoids. Although the physiological role of other plant isoprenoids is less evident, like that of the vast array of secondary metabolites, some are known to play key roles mediating the adaptative responses to different environmental challenges. In spite of the remarkable diversity of structure and function, all isoprenoids originate from a single metabolic precursor, isopentenyl diphosphate (IPP) (Wright, (1961) *Annu. Rev. Biochem.* 20:525-548; and Spurgeon and Porter, (1981) in Biosynthesis of Isoprenoid Compounds., Porter and Spurgeon eds (John Wiley, New York) Vol. 1, pp1-46).



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CONFIRMATION NO. 9155

Bib Data Sheet

SERIAL NUMBER 09/549,848	FILING DATE 04/14/2000 RULE	CLASS 435	GROUP ART/UNIT 1638	ATTORNEY DOCKET NO. 17133/02/US
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APPLICANTS

Michael Lassner, Davis, CA;
Beth Savidge, Davis, CA;
James D. Weiss, St. Louis, MO;
Timothy Mitsky, Maryland Heights, MO;
MARTHA ANN POST-BEITTEMILLER, MANCHESTER, MO;

**** CONTINUING DATA *******

This appln claims benefit of 60/129,899 04/15/1999
and claims benefit of 60/146,461 07/30/1999

**** FOREIGN APPLICATIONS *******
IF REQUIRED, FOREIGN FILING LICENSE GRANTED

** 07/12/2000

Foreign Priority claimed	<input type="checkbox"/> yes <input type="checkbox"/> no	STATE OR COUNTRY CA	SHEETS DRAWING 26	TOTAL CLAIMS 33	INDEPENDENT CLAIMS 5
35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged	Examiner's Signature	Initials			

ADDRESS

David Marsh
Arnold & Porter
555 12th Street, NW
Washington ,DC 20004

TITLE

NUCLEIC ACID SEQUENCES TO PROTEINS INVOLVED IN TOCOPHEROL SYNTHESIS

FILING FEE RECEIVED 1354	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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